

## ABSTRACT

An electrical switch for connecting and breaking a circuit including a connecting and breaking mechanism for connecting and breaking the circuit provided with at least a set of movable contacts and stationary contacts; a electromagnetism drive mechanism for controlling the contacts to be actuated so as to realize closed circuit; a housing for accommodating the movable contact and stationary contact; an arc-extinguishing mechanism disposed in the housing and corresponded to the movable and stationary contact; a case connected to a base for accommodating the electromagnetism drive mechanism; a bedplate associated with the case; and a holding mechanism disposed on the bedplate for holding the contacts to connect the circuit, the electromagnetic holding mechanism is electromagnetic and has a set of electromagnetic attracting mechanism in which the movable iron core is made to be a pothook or a baffle mechanism, the movable iron core is attracted so that the pothook or baffle keeps the switch closed by means of hitching or ramming the movable bolt when the electromagnetic attracting mechanism is powered on. The electrical switch has a structure in which it has a breakaway mechanism using winding, in which the remanence being small and the feedback force being large and the action of the limiting current being rapid, it can break the large short current as air switch.